Exhibit B BLAST of SEQ ID NO:23 versus Human genome

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MEGABLAST 1.2.3-Paracel [2001-11-20]
Reference:
Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.masked.fa
         44,521 sequences; 200,768,834,160 total letters
Query= seqid23
        (3660 letters)
                                                                 E
                                                        Score
                                                       (bits)
                                                             Value
Sequences producing significant alignments:
                                                             e-140
                                                         505
AC007600.5.1.183083
                                                         454
                                                             e-124
AC096996.1.1.194627
>AC007600.5.1.183083
        Length = 183083
 Score = 505 \text{ bits } (255), Expect = e-140
 Identities = 255/255 (100%)
 Strand = Plus / Plus
Query: 1355 agaagtttttcctccaggagagccctgttttctatgtccagacattacaagaccccagca 1414
          Sbjct: 46566 agaagtttttcctccaggagagccctgttttctatgtccagacattacaagaccccagca 46625
Query: 1415 aagetetggtetttgaggaggeeacettgteatggeaacagaeetgteeegggategtea 1474
          Sbjct: 46626 aagctctggtctttgaggaggccaccttgtcatggcaacagacctgtcccgggatcgtca 46685
          atggggcactggagctggagaggaacgggcatgcttctgaggggatgaccaggcctagag 1534
Ouery: 1475
          Sbjct: 46686 atggggcactggagctggagaggaacgggcatgcttctgaggggatgaccaggcctagag 46745
Query: 1535 atgccctcgggccagaggaagaagggaacagcctgggcccagagttgcacaagatcaacc 1594
          Sbjct: 46746 atgccctcgggccagaggaagaagggaacagcctgggcccagagttgcacaagatcaacc 46805
Query: 1595 tggtggtgtccaagg 1609
          111111111111
Sbjct: 46806 tggtggtgtccaagg 46820
 Score = 458 bits (231), Expect = e-125
 Identities = 234/235 (99%)
 Strand = Plus / Plus
          atattgattataccaaagatcctggaatattcagaagagcagttggggaatgttgtccat 603
Ouery: 544
          Sbjct: 34936 atattgattataccaaagatcctggaatattcagaagagcagttggggaatgttgtccat 34995
          ggagtgggactctgctttgccctttttctctccgaatgtgtgaagtctctgagtttctcc 663
Query: 604
```

Sbjct: 34996 ggagtgggactctgcttttgccctttttctctccgaatgtgtgaagtctctgagtttctcc 35055 tccagttggatcatcaaccaacgcacagccatcaggttccaagcagctgtttcctccttt 723 Query: 664 Sbjct: 35056 tccagttggatcatcaaccaacgcacagccatcaggttccgagcagctgtttcctccttt 35115 gcctttgagaagctcatccaatttaagtctgtaatacacatcacctcaggagagg 778 Query: 724 Sbjct: 35116 gcctttgagaagctcatccaatttaagtctgtaatacacatcacctcaggagagg 35170 Score = 454 bits (229), Expect = e-124 Identities = 229/229 (100%) Strand = Plus / Plus Query: 2217 ggttttccgctgccccatgagtttctttgacaccatcccaataggccggcttttgaactg 2276 Sbjct: 70337 ggttttccgctgccccatgagtttctttgacaccatcccaataggccggcttttgaactg 70396 cttcgcaggggacttggaacagctggaccagctcttgcccatcttttcagagcagttcct 2336 Query: 2277 Sbjct: 70397 cttcgcaggggacttggaacagctggaccagctcttgcccatcttttcagagcagttcct 70456 ggtcctgtccttaatggtgatcgccgtcctgttgattgtcagtgtgctgtctccatatat 2396 Query: 2337 Sbjct: 70457 ggtcctgtccttaatggtgatcgccgtcctgttgattgtcagtgtgtctccatatat 70516 cctgttaatgggagccataatcatggttatttgcttcatttattatatg 2445 Query: 2397 Sbjct: 70517 cctgttaatgggagccataatcatggttatttgcttcatttattatatg 70565 Score = 408 bits (206), Expect = e-110 Identities = 206/206 (100%) Strand = Plus / Plus agattggagagcggggcctcaacctctctggggggcagaaacagaggatcagcctggccc 1936 Query: 1877 Sbjct: 57285 agattggagagcggggcctcaacctctctggggggcagaaacagaggatcagcctggccc 57344 gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 1996 Query: 1937 Sbjct: 57345 gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 57404 cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 2056 Query: 1997 Sbjct: 57405 cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 57464 tcgtcctggtgacccaccagctgcag 2082 Query: 2057 Sbjct: 57465 tcgtcctggtgacccaccagctgcag 57490

Score = 385 bits (194), Expect = e-103 Identities = 194/194 (100%)

Strand = Plus / Plus

aagatgtgtgtctcggaagctcctttacacatggaaggcacaagttgtccccaggggtgg 2916 Query: 2857 Sbjct: 80649 aagatgtgtgtctcggaagctcctttacacatggaaggcacaagttgtccccaggggtgg 80708 Query: 2917 ccacagcatggggaaatcatatttcaggattatcacatgaaatacagagacaacacaccc 2976 Sbjct: 80709 ccacagcatggggaaatcatatttcaggattatcacatgaaatacagagacaacacaccc 80768 Query: 2977 accgtgcttcacggcatcaacctgaccatccgcggccacgaagtggtgggcatcgtggga 3036 Sbjct: 80769 accgtgcttcacggcatcaacctgaccatccgcggccacgaagtggtgggcatcgtggga 80828 Query: 3037 aggacgggctctgg 3050 Sbjct: 80829 aggacgggctctgg 80842 Score = 371 bits (187), Expect = 2e-99 Identities = 187/187 (100%) Strand = Plus / Plus Query: 2583 gtttaagaggctgactgatgcgcagaataactacctgctgttgtttctatcttccacacg 2642 Sbjct: 73139 gtttaagaggctgactgatgcgcagaataactacctgctgttgtttctatcttccacacg 73198 atggatggcattgaggctggagatcatgaccaaccttgtgaccttggctgttgccctgtt 2702 Query: 2643 Sbjct: 73199 atggatggcattgaggctggagatcatgaccaaccttgtgaccttggctgttgccctgtt 73258 cgtggcttttggcatttcctccacccctactcctttaaagtcatggctgtcaacatcgt 2762 Query: 2703 Sbjct: 73259 cgtggcttttggcatttcctccacccctactcctttaaagtcatggctgtcaacatcgt 73318 Query: 2763 gctgcag 2769 111111 Sbjct: 73319 gctgcag 73325 Score = 347 bits (175), Expect = 3e-92 Identities = 178/179 (99%) Strand = Plus / Plus aggccatcagcttcttcaccggtgatgtaaactacctgtttgaaggggtgtgctatggac 835 Query: 776 Sbjct: 41478 aggccatcagcttcttcaccggtgatgtaaactacctgtttgaaggggtgtgctatggac 41537 ccctagtactgatcacctgcgcatcgctggtcatctgcagcatttcttcctacttcatta 895 Query: 836 Sbjct: 41538 ccctagtactgatcacctgcgcatcgctggtcatctgcagcatttcttcctacttcatta 41597 ttggatacactgcatttattgccatcttatgctatctcctggttttcccactggaggta 954 Query: 896

Sbjct: 41598 ttggatacactgcatttattgccatcttatgctatctcctggttttcccactggcggta 41656

8

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Score = 337 bits (170), Expect = 3e-89
Identities = 170/170 (100%)
Strand = Plus / Plus

Query: 3461 agcgcacaatccgtgaagccttccagggctgcaccgtgctcgtcattgcccaccgtgtca 3520

Sbjct: 90163 agcgcacaatccgtgaagccttccagggctgcaccgtgctcattgcccaccgtgtca 90222

Query: 3521 ccactgtgctgaactgtgaccacatcctggttatgggcaatgggaaggtg 3570

Sbjct: 90223 ccactgtgctgaactgtgaccacatcctggttatgggcaatgggaaggtg 90272

Score = 321 bits (162), Expect = 2e-84

Identities = 162/162 (100%)

Strand = Plus / Plus

Query: 235 aggtttcctgcccccagcccttggacaatgctggcctgttctcctacctcaccgtgtca 294

Query: 295 tggctcaccccgctcatgatccaaagcttacggagtcgcttagatgagaacaccatccct 354

Query: 355 ccactgtcagtccatgatgcctcagacaaaaatgtccaaagg 396

Sbjct: 29921 ccactgtcagtccatgatgcctcagacaaaaatgtccaaagg 29962

Score = 319 bits (161), Expect = 7e-84

Identities = 161/161 (100%)
Strand = Plus / Plus

Query: 3049 gggaagtcctccttgggcatggctctcttccgcctggtggagcccatggcaggccggatt 3108

Sbjct: 82347 gggaagtcctccttgggcatggctctcttccgcctggtggagcccatggcaggccggatt 82406

Query: 3109 ctcattgacggcgtggacatttgcagcatcggcctggaggacttgcggtccaagctctca 3168

Sbjct: 82407 ctcattgacggcgtggacatttgcagcatcggcctggaggacttgcggtccaagctctca 82466

Query: 3169 gtgatccctcaagatccagtgctgctctcaggaaccatcag 3209

Sbjct: 82467 gtgatccctcaagatccagtgctgctctcaggaaccatcag 82507

Score = 299 bits (151), Expect = 6e-78
Identities = 151/151 (100%)

Strand = Plus / Plus

aaggetteacegeetttgggaagaagaagteteaaggegagggattgaaaaagetteagt 452 Query: 393 Sbjct: 33335 aaggetteacegeetttgggaagaagaagteteaaggegagggattgaaaaagetteagt 33394 gcttctggtgatgctgaggttccagagaacaaggttgattttcgatgcacttctgggcat 512 Query: 453 Sbjct: 33395 gcttctggtgatgctgaggttccagagaacaaggttgattttcgatgcacttctgggcat 33454 ctgcttctgcattgccagtgtactcgggcca 543 Query: 513 1111111111111111111111111111111111111 Sbjct: 33455 ctgcttctgcattgccagtgtactcgggcca 33485 Score = 297 bits (150), Expect = 3e-77Identities = 150/150 (100%)Strand = Plus / Plus aggtattcatgacaagaatggctgtgaaggctcagcatcacacatctgaggtcagcgacc 1009 Query: 950 Sbjct: 42421 aggtattcatgacaagaatggctgtgaaggctcagcatcacacatctgaggtcagcgacc 42480 Query: 1010 agcgcatccgtgtgaccagtgaagttctcacttgcattaagctgattaaaatgtacacat 1069 Sbjct: 42481 agcgcatccgtgtgaccagtgaagttctcacttgcattaagctgattaaaatgtacacat 42540 gggagaaaccatttgcaaaaatcattgaag 1099 Query: 1070 111111111111111111111111111111111 Sbjct: 42541 gggagaaaccatttgcaaaaatcattgaag 42570 Score = 293 bits (148), Expect = 4e-76 Identities = 151/152 (99%) Strand = Plus / Plus agacctaagaaggaaggaaagctattggagaagtgcgggcttgtccagagcctgac 1157 Query: 1098 Sbjct: 42736 agacctaagaaggaaaggaaaggaaactattggagaagtgcgggcttgtccagagcctgac 42795 Query: 1158 aagtataaccttgttcatcatccccacagtggccacagcggtctgggttctcatccacac 1217 Sbjct: 42796 aagtataaccttgttcatcatccccacagtggccacagcggtctgggttctcatccacac 42855 Query: 1218 atccttaaagctgaaactcacagcgtcaatgg 1249 Sbjct: 42856 atccttaaagctgaaactcacagcgtcaatgg 42887 Score = 289 bits (146), Expect = 6e-75Identities = 188/202 (93%) Strand = Plus / Plus

Query: 1877 agattggagagcggggcctcaacctctctgggggggcagaaacagaggatcagcctggccc 1936

```
Sbjct: 142145 agattggggagcggggcctcaacctctctggggggcagagggcagaggattagcctggccc 142204
         gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 1996
Ouery: 1937
          Sbjct: 142205 gcgctgtctactccgaccgtcagctctacctgctggacgaccccctgtcggccgtggacg 142264
         cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 2056
Query: 1997
          Sbjct: 142265 cccacgtggggaagcacgtctttgaggagtgcattaagaagacgctcaggggaaagacag 142324
          tcgtcctggtgacccaccagct 2078
Query: 2057
          Sbjct: 142325 tcgtcctggtgacccaccagct 142346
Score = 278 bits (140), Expect = 2e-71
Identities = 140/140 (100%)
Strand = Plus / Plus
Query: 2445 gatgttcaagaaggccatcggtgtttcaagagactggagaactatagccggtctccttt 2504
         Sbjct: 70675 gatgttcaagaaggccatcggtgtgttcaagagactggagaactatagccggtctccttt 70734
tgaagacttcatcagccagt 2584
Query: 2565
         Sbjct: 70795 tgaagacttcatcagccagt 70814
Score = 278 bits (140), Expect = 2e-71
Identities = 140/140 (100%)
Strand = Plus / Plus
         cagtacttagaattttgtggccagatcattttgttggaaaatgggaaaatctgtgaaaat 2139
Query: 2080
         Sbjct: 59486 cagtacttagaattttgtggccagatcattttgttggaaaatgggaaaatctgtgaaaat 59545
Query: 2140 ggaactcacagtgagttaatgcagaaaaaggggaaatatgcccaacttatccagaagatg 2199
         Sbjct: 59546 ggaactcacagtgagttaatgcagaaaaaggggaaatatgcccaacttatccagaagatg 59605
Query: 2200 cacaaggaagccacttcggt 2219
         Sbjct: 59606 cacaaggaagccacttcggt 59625
Score = 276 bits (139), Expect = 9e-71
Identities = 139/139 (100%)
Strand = Plus / Plus
         aaaacctatactctccaagatggcccctggagtcagcaagagagaaatcctgaggctcca 159
Query: 100
```

Sbjct: 27194 aaaacctatactctccaagatggcccctggagtcagcaagagagaaatcctgaggctcca 27253 gggagggcagctgtcccaccgtgggggaagtatgatgctgccttgagaaccatgattccc 219 Sbjct: 27254 gggagggcagctgtcccaccgtgggggaagtatgatgctgccttgagaaccatgattccc 27313 ttccgtcccaagccgaggt 238 Ouery: 220 Sbjct: 27314 ttccgtcccaagccgaggt 27332 Score = 252 bits (127), Expect = 1e-63 Identities = 127/127 (100%) Strand = Plus / Plus Query: 1679 agatgcacttgctcgagggctcggtgggggtgcagggaagcctggcctatgtcccccagc 1738 Sbjct: 52228 agatgcacttgctcgagggctcggtgggggtgcagggaagcctggcctatgtcccccagc 52287 Query: 1739 aggcctggatcgtcagcgggaacatcagggagaacatcctcatgggaggcgcatatgaca 1798 Sbjct: 52288 aggcctggatcgtcagcgggaacatcagggagaacatcctcatgggaggcgcatatgaca 52347 Query: 1799 aggcccg 1805 Sbjct: 52348 aggcccg 52354 Score = 226 bits (114), Expect = 8e-56 Identities = 114/114 (100%) Strand = Plus / Plus Query: 3289 atctcaaagttccccaaaaagctgcatacagatgtggtggaaaacggtggaaacttctct 3348 Sbjct: 87547 atctcaaagttccccaaaaagctgcatacagatgtggtggaaaacggtggaaacttctct 87606 gtgggggagaggcagctgctctgcattgccagggctgtgcttcgcaactccaag 3402 Query: 3349 Sbjct: 87607 gtgggggagaggcagctgctctgcattgccagggctgtgcttcgcaactccaag 87660 Score = 216 bits (109), Expect = 7e-53Identities = 109/109 (100%) Strand = Plus / Plus ggccttcagcatgctggcctccttgaatctccttcggctgtcagtgttctttgtgcctat 1307 Query: 1248 Sbjct: 44216 ggccttcagcatgctggcctccttgaatctccttcggctgtcagtgttctttgtgcctat 44275 Query: 1308 tgcagtcaaaggtctcacgaattccaagtctgcagtgatgaggttcaag 1356

Sbjct: 44276 tgcagtcaaaggtctcacgaattccaagtctgcagtgatgaggttcaag 44324

Score = 196 bits (99), Expect = 7e-47

Identities = 99/99 (100%)
Strand = Plus / Plus

Query: 1 atgactaggaagaggacatactgggtgcccaactcttctggtggcctcgtgaatcgtggc 60

Sbjct: 25846 atgactaggaagaggacatactgggtgcccaactcttctggtggcctcgtgaatcgtggc 25905

Query: 61 atcgacataggcgatgacatggtttcaggacttatttat 99

Score = 188 bits (95), Expect = 2e-44

Identities = 95/95 (100%)

Strand = Plus / Plus

Query: 3566 aggtggtagaatttgatcggccggaggtactgcggaagaagcctgggtcattgttcgcag 3625

Sbjct: 90397 aggtggtagaatttgatcggccggaggtactgcggaagaagcctgggtcattgttcgcag 90456

Query: 3626 ccctcatggccacagccacttcttcactgagataa 3660

Sbjct: 90457 ccctcatggccacagccacttcttcactgagataa 90491

Score = 182 bits (92), Expect = 1e-42

Identities = 92/92 (100%)

Strand = Plus / Plus

Query: 2768 agctggcgtccagcttccaggccactgcccggattggcttggagacagaggcacagttca 2827

Sbjct: 79077 agctggcgtccagcttccaggccactgcccggattggcttggagacagaggcacagttca 79136

Query: 2828 cggctgtagagaggatactgcagtacatgaag 2859

Sbjct: 79137 cggctgtagagaggatactgcagtacatgaag 79168

Score = 161 bits (81), Expect = 4e-36

Identities = 81/81 (100%)

Strand = Plus / Plus

Query: 3208 agattcaacctagatccctttgaccgtcacactgaccagcagatctgggatgccttggag 3267

Sbjct: 86796 agattcaacctagatccctttgaccgtcacactgaccagcagatctgggatgccttggag 86855

Query: 3268 aggacattcctgaccaaggcc 3288

Sbjct: 86856 aggacattcctgaccaaggcc 86876

Score = 147 bits (74), Expect = 6e-32

Identities = 74/74 (100%)

Strand = Plus / Plus

Query: 1805 gatacctccaggtgctccactgctgctccctgaatcgggacctggaacttctgccctttg 1864 Sbjct: 54466 gatacetecaggtgetecactgetgetecetgaategggaeetggaacttetgeeetttg 54525 Query: 1865 gagacatgacagag 1878 1111111111111 Sbjct: 54526 gagacatgacagag 54539 Score = 147 bits (74), Expect = 6e-32 Identities = 74/74 (100%)Strand = Plus / Plus Query: 1607 aggggatgatgttaggggtctgcggcaacacggggagtggtaagagcagcctgttgtcag 1666 Sbjct: 49269 aggggatgatgttaggggtctgcggcaacacggggagtggtaagagcagcctgttgtcag 49328 Query: 1667 ccatcctggaggag 1680 Sbjct: 49329 ccatcctggaggag 49342 >AC096996.1.1.194627 Length = 194627Score = 454 bits (229), Expect = e-124Identities = 229/229 (100%) Strand = Plus / Minus ggttttccgctgccccatgagtttctttgacaccatcccaataggccggcttttgaactg 2276 Query: 2217 Sbjct: 173330 ggttttccgctgccccatgagtttctttgacaccatcccaataggccggcttttgaactg 173271 cttcgcaggggacttggaacagctggaccagctcttgcccatcttttcagagcagttcct 2336 Query: 2277 Sbjct: 173270 cttcgcaggggacttggaacagctggaccagctcttgcccatcttttcagagcagttcct 173211 ggtcctgtccttaatggtgatcgccgtcctgttgattgtcagtgtgctgtctccatatat 2396 Query: 2337 Sbjct: 173210 ggtcctgtccttaatggtgatcgccgtcctgttgattgtcagtgtgtctccatatat 173151 cctgttaatgggagccataatcatggttatttgcttcatttattatatg 2445 Query: 2397 Sbjct: 173150 cctgttaatgggagccataatcatggttatttgcttcatttattatatg 173102 Score = 408 bits (206), Expect = e-110 Identities = 206/206 (100%) Strand = Plus / Minus agattggagagcggggcctcaacctctctggggggcagaaacagaggatcagcctggccc 1936 Query: 1877 Sbjct: 186382 agattggagagcggggcctcaacctctctgggggggcagaaacagaggatcagcctggccc 186323

The same of the same of

Query: 1937 gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 1996

Sbjct: 186322 gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 186263 cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 2056 Query: 1997 Sbjct: 186262 cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 186203 tcgtcctggtgacccaccagctgcag 2082 Ouerv: 2057 Sbjct: 186202 tcgtcctggtgacccaccagctgcag 186177 Score = 385 bits (194), Expect = e-103 Identities = 194/194 (100%) Strand = Plus / Minus aagatgtgtgtctcggaagctcctttacacatggaaggcacaagttgtccccaggggtgg 2916 Query: 2857 Sbjct: 163018 aagatgtgtctcggaagctcctttacacatggaaggcacaagttgtccccaggggtgg 162959 ccacagcatggggaaatcatatttcaggattatcacatgaaatacagagacaacacaccc 2976 Query: 2917 Sbjct: 162958 ccacagcatggggaaatcatatttcaggattatcacatgaaatacagagacaacacacc 162899 accgtgcttcacggcatcaacctgaccatccgcggccacgaagtggtgggcatcgtggga 3036 Query: 2977 Sbjct: 162898 accgtgcttcacggcatcaacctgaccatccgcggccacgaagtggtgggcatcgtggga 162839 aggacgggctctgg 3050 Ouery: 3037 1111111111111 Sbjct: 162838 aggacgggctctgg 162825 Score = 371 bits (187), Expect = 2e-99Identities = 187/187 (100%) Strand = Plus / Minus gtttaagaggctgactgatgcgcagaataactacctgctgttgtttctatcttccacacg 2642 Query: 2583 Sbjct: 170528 gtttaagaggctgactgatgcgcagaataactacctgctgttgtttctatcttccacacg 170469 atggatggcattgaggctggagatcatgaccaaccttgtgaccttggctgttgccctgtt 2702 Query: 2643 Sbjct: 170468 atggatggcattgaggctggagatcatgaccaaccttgtgaccttggctgttgccctgtt 170409 cgtggcttttggcatttcctccacccctactcctttaaagtcatggctgtcaacatcgt 2762 Query: 2703 Sbjct: 170408 cgtggcttttggcatttcctccacccctactcctttaaagtcatggctgtcaacatcgt 170349 Query: 2763 gctgcag 2769

1

Sbjct: 170348 gctgcag 170342

Score = 337 bits (170), Expect = 3e-89 Identities = 170/170 (100%)

Strand = Plus / Minus

```
Query: 3401
         agcgcacaatccgtgaagccttccagggctgcaccgtgctcgtcattgcccaccgtgtca 3520
Ouery: 3461
         Sbjct: 153504 agcgcacaatccgtgaagccttccagggctgcaccgtgctcgtcattgcccaccgtgtca 153445
         ccactgtgctgaactgtgaccacatcctggttatgggcaatgggaaggtg 3570
Query: 3521
         Sbjct: 153444 ccactgtgctgaactgtgaccacatcctggttatgggcaatgggaaggtg 153395
Score = 319 bits (161), Expect = 7e-84
Identities = 161/161 (100%)
Strand = Plus / Minus
         gggaagtcctccttgggcatggctctcttccgcctggtggagcccatggcaggccggatt 3108
Query: 3049
         Sbjct: 161320 gggaagtcctccttgggcatggctctcttccgcctggtggagcccatggcaggccggatt 161261
         ctcattgacggcgtggacatttgcagcatcggcctggaggacttgcggtccaagctctca 3168
Query: 3109
         Sbjct: 161260 ctcattgacggcgtggacatttgcagcatcggcctggaggacttgcggtccaagctctca 161201
Query: 3169
         gtgatccctcaagatccagtgctgctctcaggaaccatcag 3209
         Sbjct: 161200 gtgatccctcaagatccagtgctgctctcaggaaccatcag 161160
Score = 289 bits (146), Expect = 6e-75
Identities = 188/202 (93%)
Strand = Plus / Minus
         agattggagagcggggcctcaacctctctggggggcagaaacagaggatcagcctggccc 1936
Query: 1877
         Sbjct: 101522 agattggggagcggggcctcaacctctctgggggggcagagggcagaggattagcctggccc 101463
         gcgccgtctattccgaccgtcagatctacctgctggacgaccccctgtctgctgtggacg 1996
Ouery: 1937
         Sbjct: 101462 gcgctgtctactccgaccgtcagctctacctgctggacgaccccctgtcggccgtggacg 101403
         cccacgtggggaagcacatttttgaggagtgcattaagaagacactcagggggaagacgg 2056
Ouery: 1997
          Sbjct: 101402 cccacgtggggaagcacgtctttgaggagtgcattaagaagacgctcaggggaaagacag 101343
         tcgtcctggtgacccaccagct 2078
Ouery: 2057
         Sbjct: 101342 tcgtcctggtgacccaccagct 101321
```

Score = 278 bits (140), Expect = 2e-71
Identities = 140/140 (100%)

Strand = Plus / Minus

```
cagtacttagaattttgtggccagatcattttgttggaaaatgggaaaatctgtgaaaat 2139
Query: 2080
          Sbjct: 184181 cagtacttagaattttgtggccagatcattttgttggaaaatgggaaaatctgtgaaaat 184122
          ggaactcacagtgagttaatgcagaaaaaggggaaatatgcccaacttatccagaagatg 2199
Query: 2140
          Sbjct: 184121 ggaactcacagtgagttaatgcagaaaaaggggaaatatgcccaacttatccagaagatg 184062
          cacaaggaagccacttcggt 2219
Query: 2200
          11111111111111111
Sbjct: 184061 cacaaggaagccacttcggt 184042
Score = 278 bits (140), Expect = 2e-71
Identities = 140/140 (100%)
Strand = Plus / Minus
          gatgttcaagaaggccatcggtgtttcaagagactggagaactatagccggtctccttt 2504
Query: 2445
          Sbjct: 172992 gatgttcaagaaggccatcggtgtgttcaagagactggagaactatagccggtctccttt 172933
          atteteceacatecteaattetetgeaaggeetgageteeateeatgtetatggaaaaae 2564
Ouery: 2505
          tgaagacttcatcagccagt 2584
Query: 2565
          Sbjct: 172872 tgaagacttcatcagccagt 172853
 Score = 252 bits (127), Expect = 1e-63
Identities = 127/127 (100%)
Strand = Plus / Minus
          agatgcacttgctcgagggctcggtgggggtgcagggaagcctggcctatgtcccccagc 1738
Query: 1679
          Sbjct: 191439 agatgcacttgctcgagggctcggtgggggtgcagggaagcctggcctatgtcccccagc 191380
          aggcctggatcgtcagcgggaacatcagggagaacatcctcatgggaggcgcatatgaca 1798
Query: 1739
           Sbjct: 191379 aggcctggatcgtcagcgggaacatcagggagaacatcctcatgggaggcgcatatgaca 191320
Query: 1799
          aggcccg 1805
          | | | | | | |
Sbjct: 191319 aggcccg 191313
 Score = 226 bits (114), Expect = 8e-56
 Identities = 114/114 (100%)
 Strand = Plus / Minus
```

Query: 3289 atctcaaagttccccaaaaagctgcatacagatgtggtggaaaacggtggaaacttctct 3348

Sbjct: 156120 atctcaaaqttccccaaaaagctgcatacagatgtggtggaaaacggtggaaacttctct 156061 Query: 3349 gtggggagaggcagctgctctgcattgccagggctgtgcttcgcaactccaag 3402 Sbjct: 156060 gtgggggagaggcagctgctctgcattgccagggctgtgcttcgcaactccaag 156007 Score = 188 bits (95), Expect = 2e-44Identities = 95/95 (100%) Strand = Plus / Minus aggtggtagaatttgatcggccggaggtactgcggaagaagcctgggtcattgttcgcag 3625 Query: 3566 Sbjct: 153270 aggtggtagaatttgatcggccggaggtactgcggaagaagcctgggtcattgttcgcag 153211 ccctcatggccacagccacttcttcactgagataa 3660 Query: 3626 Sbjct: 153210 ccctcatggccacagccacttcttcactgagataa 153176 Score = 182 bits (92), Expect = 1e-42 Identities = 92/92 (100%) Strand = Plus / Minus agctggcgtccagcttccaggccactgcccggattggcttggagacagaggcacagttca 2827 Query: 2768 Sbjct: 164590 agctggcgtccagcttccaggccactgcccggattggcttggagacagaggcacagttca 164531 Query: 2828 cggctgtagagaggatactgcagtacatgaag 2859 Sbjct: 164530 cggctgtagagaggatactgcagtacatgaag 164499 Score = 161 bits (81), Expect = 4e-36 Identities = 81/81 (100%) Strand = Plus / Minus agattcaacctagatccctttgaccgtcacactgaccagcagatctgggatgccttggag 3267 Query: 3208 Sbjct: 156871 agattcaacctagatccctttgaccgtcacactgaccagcagatctgggatgccttggag 156812 Query: 3268 aggacattcctgaccaaggcc 3288 Sbjct: 156811 aggacattcctgaccaaggcc 156791 Score = 147 bits (74), Expect = 6e-32 Identities = 74/74 (100%) Strand = Plus / Minus gatacctccaggtgctccactgctgctccctgaatcgggacctggaacttctgccctttg 1864 Query: 1805 Sbjct: 189201 gatacctccaggtgctccactgctgctccctgaatcgggacctggaacttctgccctttg 189142

Query: 1865 gagacatgacagag 1878

1111111111111

Sbjct: 189141 gagacatgacagag 189128

Score = 147 bits (74), Expect = 6e-32 Identities = 74/74 (100%)

Strand = Plus / Minus

aggggatgatgttaggggtctgcggcaacacggggagtggtaagagcagcctgttgtcag 1666 Query: 1607

Sbjct: 194398 aggggatgatgttaggggtctgcggcaacacggggagtggtaagagcagcctgttgtcag 194339

ccatcctggaggag 1680 Query: 1667

Sbjct: 194338 ccatcctggaggag 194325